



# E85 Fuel Ethanol Retail Issues

California Department of Food and Agriculture Division of Measurement Standards

Integrated Energy Policy Report Workshop April 14, 2009



#### **Division Mission Statement**

Preserve and defend the measurement standards essential in providing the citizens a basis of value comparison and fair competition in the marketplace



# **Authority**

# Authority to regulate Weights and Measures and Fuel Products is found in Division 5 of the California Business and Professions Code





#### **Alternative Fuels**

## **CDFA** Responsibilities

- Division of Measurement Standards (DMS) role in alternative fuel development
  - ✓ Ensure Measurement Traceability
  - ✓ Promote Uniform Requirements and Practices
  - Ensure Consumers Get What They Pay For
  - ✓ Level Playing Field in the Marketplace
  - Harmonize with International Standards



## **Commercial Measuring Device**

A device used for ascertaining the measure of any commodity or thing which is sold on the basis of measure; or the determination of the measure of any commodity or thing upon which determination a charge for service is based.





#### **Alternative Fuels**

#### **Division Responsibilities**

- Type Evaluation
  - National and California Type Evaluation Program
- Device Accuracy
  - CA Device Compliance Program
- Fuel Quality, Advertising, Labeling, and Quantity
  - > CA Petroleum Products Program
- State / County Relationship



# **CA Petroleum Products Program**

- National Standards Organizations Participation
  - Establish uniform standards to enhance consumer protection
  - Foster fair competition
  - Facilitate economic growth and trade



# Standards Organizations

**❖ ASTM International, Inc.** 



Society of Automotive Engineers



National Institute of Standards and Technology

National Institute of Standards and Technology

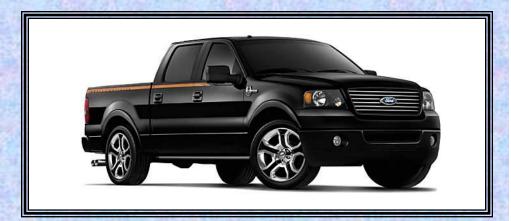














- E85 is a mixture of up to 85% denatured ethanol and gasoline or other hydrocarbon by volume (minimum content is 70%)
- Approximately 6.8 million flexible fuel vehicles (FFV) designed to run on blends up to 85% ethanol in U.S. today
- Fifteen service stations in California now offer E85 Fuel Ethanol to the public



- Energy Content
  - ➤ E85 has about 27% less energy than gasoline
- Cost per mile to consumers
  - Impacted by relative cost of ethanol and gasoline
  - Gasoline Gallon Equivalent (GGE)





- E-85 Dispensers are type approved by National Type Evaluation Program for commercial use but...
  - > Not Underwriters Laboratories approved
  - State and Local Fire Marshals may grant use permits
- Not all State and County test standards (provers) are suitable for the corrosive nature of the fuel
  - > New test standards are necessary



- The Department does not currently have the equipment needed to test this product
- Any complaint samples must be tested by an independent laboratory
- The Division is going to have to prepare to test the quality of E85 fuel





- Marketplace cannot move to different concentrations of ethanol and gasoline mixtures without lawful standards
  - Developmental Fuels Variance Program
  - Assist with development of consensus standards
  - > Adopt standards as they are approved





# E85 Labeling

- Labeling regulations are not consistent for E85
  - > Federal vs State
    - Product name E85 Fuel Ethanol vs. E85
      vs. FFV Fuel vs. Ethanol FFV
    - Fuel Rating % Ethanol vs. Octane
  - Consumer warnings vehicle fuel compatibility; possible Clean Air Act violations
  - > New laws have to be established







# **Contact Information**

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